

Patent Claims

1. Laser-markable plastics, characterized in that a plastic which is difficult to laser-mark comprises as absorber material an intrinsically laser-markable polymer in the form of micromilled particles having a particle size of 0.1 - 100 μ m.
2. Laser-markable plastics according to Claim 1, characterized in that the absorber material is a high-temperature-resistant plastic.
3. Laser-markable plastics according to Claim 1 ~~or 2~~, characterized in that the absorber material is polyphenylene sulfide, polysulfone, polyarylate, polyimide, liquid-crystalline polymers or a mixture thereof.
4. Laser-markable plastics according to ~~one of~~ Claims 1 ~~to 3~~, characterized in that the proportion of the absorber material based on the plastics system is 0.1 - 10% by weight.
5. Laser-markable plastics according to ~~one of~~ Claims 1 ~~to 4~~, characterized in that the particle structure of the intrinsically markable polymer is retained in the plastic.
6. Laser-markable plastics according to ~~one of~~ Claims 1 ~~to 5~~, characterized in that the absorber material additionally comprises, as further absorber, one or more light-sensitive pigments.
7. Laser-markable plastics according to Claim 6, characterized in that the light-sensitive pigment is natural or synthetic mica, copper phosphate, a special-effect pigment, a conductive pigment, a metal nitrate, metal sulfate, metal sulfide or metal oxide.
8. Laser-markable plastics according to ~~one of~~ Claims 1 ~~to 7~~, characterized in that the proportion of the light-sensitive pigments in the plastic is from 0 to 5% by weight, based on the plastics system.
9. Laser-markable plastics according to ~~one of~~ Claims 1 ~~to 8~~, characterized in that the plastic which

is difficult to laser-treat is polyethylene, polypropylene, polyamide, polyoxymethylene, polyester, methyl ^{poly methyl} methacrylate, polyurethane or a copolymer thereof.

5 10. Laser-markable plastics according to ~~one~~ of Claims 1 ~~to 9~~, characterized in that they additionally comprise colour pigments.

11. Use of the laser-markable plastics according to Claim 1 as material for producing mouldings which are marked with the aid of lasers.

12. Mouldings consisting of the laser-markable plastic according to Claim 1.

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